

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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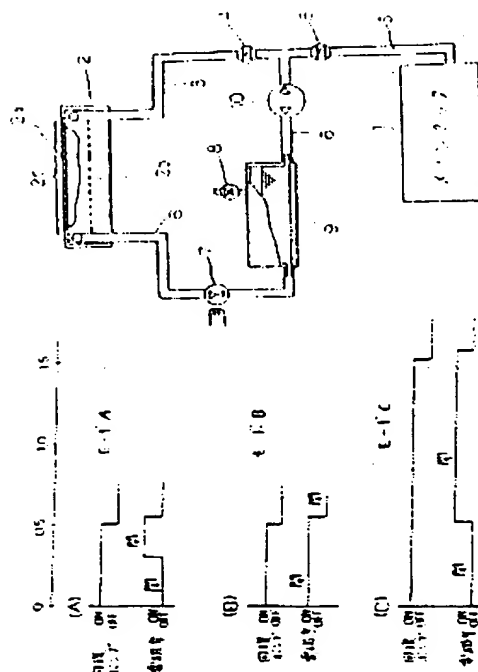
APPLICATION DATE : 15-12-89  
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INT.CL. : B41J 2/175 B41J 2/125

TITLE : LIQUID JET RECORDER



**ABSTRACT :** **PURPOSE:** To reduce consumption of ink by a construction wherein a means for detecting the state of a device is provided, and in accordance with the state, the action timings of an ink pressurizing pump and a valve are controlled at the time of ink circulation for controlling a pressurizing force.

**CONSTITUTION:** A recorder is constructed so that in accordance with the state of the recorder, such as the quiescent time of the recorder and the temperature of a recording head, three types of circulation recovery actions, i.e. modes A, B, and C, can be executed in required sequences. In the mode A which is operated when a power source is ON, a circulation time is 0.5sec. and during this period a solenoid valve 7 is closed for 0.3sec. to set a pressurizing force acting to a delivery port 2a higher than that in the mode B. The mode B has a sequence that a circulation time is set to 0.5sec. and the solenoid valve 7 has been opened before a recovery pump 10 is operated. In the mode C, an action timing is controlled with a sequence that a circulation time is 1.5sec. and during this period the solenoid valve 7 is closed for 0.5sec. In this manner, the wasteful consumption of ink at the time of recovery can be minimized with a simple mechanism.

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